

### **ABSTRACT**

A bacterin including effective immunizing amounts of two non-crossprotective isolates of inactivated *Borrelia burgdorferi*, an adjuvant in an amount effective to enhance the immunogenicity of the inactivated *Borrelia burgdorferi* isolates and a suitable carrier is provided herein. The bacterin may also contain a third non-crossprotective isolate. A bacterin including effective immunizing amounts of an antigenic subunit derived from a first *Borrelia burgdorferi* isolate and a second, non-crossprotective *Borrelia burgdorferi* isolate, an adjuvant in an amount effective to enhance the immunogenicity of the antigenic subunits and a suitable carrier is also provided. The bacterin may also contain an effective immunizing amount of an antigenic subunit of a third *Borrelia burgdorferi*. Further provided is a bacterin which includes effective immunizing amounts of two non-crossprotective isolates of inactivated *Borrelia burgdorferi* and one or more antigenic subunits from the non-crossprotective isolates, an adjuvant in an amount effective to enhance the immunogenicity of the inactivated *Borrelia burgdorferi* and antigenic subunits and a suitable carrier.